

Influence of unreasoned economic activity on the condition of macrophytes of the Bol'shoye Goluboye Lake

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Abstract

© Published under licence by IOP Publishing Ltd. The ecosystem of Lake Bolshoye Goluboe had undergone a strong anthropogenic impact in 2013 as a result of the implementation of the dam reconstruction project. Studies in 2014 have shown that the implementation of the project for the reconstruction of the Bolshoye Goluboe dam has negatively affected on the species richness of macrophytes. The total species composition of the lake and species richness of the water core decreased twofold, *Hippuris vulgaris* L., *Zannichellia palustris* L, *Ceratophyllum demersum* L., and the species listed in the Red Book of the Republic of Tatarstan - *Batrachium circinatum* (Sibth.) Spach disappeared from the species composition. The area occupied by macrophyte communities has decreased by 55%.

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